



Figure 2-27 Thin section image from the Annona Sand (4,177 feet) in the Louisiana Green Fuels stratigraphic test well La SN975841 (magnification 50x). This thin section image illustrates the petrologic and sedimentological characteristics that impart excellent reservoir quality to the Annona Sand. This XRD measurements for this sample indicate that it is dominated by detrital quartz (85 weight %) and contains very little clay (6.4 weight %). The presence of glauconite confirms deposition in a marine setting. Visible intergranular porosity is abundant throughout the sample. The measured porosity is 27.9%, and the corresponding air permeability is 66.9 mD (using conventional routine core analysis and a net confining stress of 1,500 psi). These measurements confirm that the abundant, large intergranular pores observed in thin sections from this clean sandstone are well connected and amenable to carbon dioxide injection.